

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (cancelled)
2. (currently amended) The method of claim 1 24, further comprising altering a configuration of the said refrigeration system ~~in response to~~ based on said analyzing comparing.
3. (currently amended) The method of claim 1 26, wherein said analyzing said food condition data includes calculating a food quality index.
4. (original) The method of claim 3, further comprising alarming as a function of said food quality index.
5. (cancelled)
6. (currently amended) The method of claim 1 24, wherein said weather data is historical weather data.
7. (currently amended) The method of claim 1 24, wherein said weather data is actual weather data.

8. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing condenser condition data.
9. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing compressor condition data.
10. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing liquid refrigerant flood back data.
11. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing relay output data.
12. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing contactor count data.
13. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing compressor run-time data.
14. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing oil check data.

15. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing air filter data.
16. (currently amended) The method of claim 4 25, wherein said analyzing said maintenance indicator data includes analyzing light bulb change data.
17. (currently amended) The method of claim 4 24, further comprising outputting a work order ~~in response to~~ based on said ~~analyzing~~ comparing.
18. (currently amended) The method of claim 4 28, wherein said transmitting includes transmitting through a communication gateway to said management center.
19. (currently amended) The method of claim 18, further comprising post-processing said ~~data~~ energy consumption at said communication gateway.
20. (currently amended) The method of claim 4 26, wherein said analyzing includes calculating a food safety index.
21. (original) The method of claim 20, further comprising alarming as a function of said food safety index.
22. (currently amended) The method of claim 4 24, further comprising advising manipulation of ~~the~~ said refrigeration system based on said ~~analyzing~~ comparing.

23. (currently amended) The method of claim 4 28, further comprising locating the said refrigeration system at a retail location and locating said management center at a remote location located remotely to said retail location.

24. (new) A method of managing a refrigeration system, said method comprising:
monitoring an energy consumption of said refrigeration system;
accessing a source of weather data;
calculating an energy consumption projection based on weather data;
comparing said energy consumption with said energy consumption projection;
and
determining refrigeration system performance based on said comparing.

25. (new) The method of claim 24 further comprising:
accessing maintenance indicator data of said refrigeration system;
analyzing said maintenance indicator data; and
determining refrigeration system performance based on said analyzing.

26. (new) The method of claim 24 further comprising:
accessing food condition data of said refrigeration system;
analyzing said food condition data; and
determining refrigeration system performance based on said analyzing.

27. (new) The method of claim 24 wherein said determining refrigeration system performance comprises at least one of monitoring, diagnosing and prognosing refrigeration system performance.
28. (new) The method of claim 24 further comprising transmitting said energy consumption to a management center wherein said determining refrigeration system performance occurs at said management center.
29. (new) The method of claim 25 further comprising transmitting said maintenance indicator data to a management center wherein said determining refrigeration system performance occurs at said management center.
30. (new) The method of claim 29, wherein said transmitting said maintenance indicator data includes transmitting through a communication gateway to said management center.
31. (new) The method of claim 30, further comprising post-processing said maintenance indicator data at said communication gateway.
32. (new) The method of claim 26 further comprising transmitting said food condition data to a management center wherein said determining refrigeration system performance occurs at said management center.

33. (new) The method of claim 32, wherein said transmitting said food condition data includes transmitting through a communication gateway to said management center.

34. (new) The method of claim 33, further comprising post-processing said food condition data at said communication gateway.

35. (new) The method of claim 25, further comprising altering a configuration of said refrigeration system based on said analyzing.

36. (new) The method of claim 26, further comprising altering a configuration of said refrigeration system based on said analyzing.

37. (new) The method of claim 25, further comprising outputting a work order based on said analyzing.

38. (new) The method of claim 26, further comprising outputting a work order based on said analyzing.

39. (new) The method of claim 25, further comprising advising manipulation of the refrigeration system based on said analyzing.

40. (new) The method of claim 26, further comprising advising manipulation of the refrigeration system based on said analyzing.